

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Philippe ANTOINE

Attorney Docket Q63899

Appln. No.: not yet assigned

Group Art Unit: not yet assigned

Confirmation No.: not yet assigned

Examiner: Not yet assigned

Filed: April 24, 2001

For: METHOD TO GENERATE A PSEUDO-RANDOM SEQUENCE OF MULTI-CARRIER
DATA SYMBOLS, AND RELATED TRANSMITTER AND RECEIVER

PRELIMINARY AMENDMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

Prior to examination, please amend the above-identified application as follows:

IN THE SPECIFICATION:

The specification is changed as follows:

Page 1, after the title, insert the heading

BACKGROUND OF THE INVENTION

Page 3, after line 8, insert the heading

SUMMARY OF THE INVENTION

Page 5, after line 15, insert the heading

BRIEF DESCRIPTION OF THE DRAWINGS

after line 27, insert the heading

DETAILED DESCRIPTION OF THE INVENTION

104434-0100-0000

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IN THE ABSTRACT:

Please delete the present Abstract of the Disclosure and replace it with the following
new Abstract of the Disclosure.

ABSTRACT

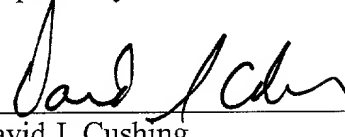
To generate a pseudo-random sequence (PRMS1) of multi-carrier data symbols (DMT0, DMT1, DMT2), a pseudo-random bit sequence (PRBS1) is produced by repetitively generating a pseudo-random sequence of L bits, L being a first integer value ($L=4$). To create a multi-carrier data symbol (DMT0, DMT1, DMT2) N bits are used, N being a second integer value ($N=8$). The pseudo-random bit sequence (PRBS1) is subdivided into strings of N' bits, N' being a third integer value larger than N ($N'=9$), and N bits out of each string of N' bits are used to generate a respective multi-carrier data symbol (DMT0, DMT1, DMT2). $N'-N$ bits out of each string of N' bits are left unused.

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REMARKS

Entry and consideration of this Amendment are respectfully requested.

Respectfully submitted,



David J. Cushing

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Date: April 24, 2001

APPENDIX

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE SPECIFICATION:

The specification is changed as follows:

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after line 27, insert the heading

DETAILED DESCRIPTION OF THE INVENTION

IN THE ABSTRACT OF DISCLOSURE:

The abstract is changed as follows:

ABSTRACT

METHOD TO GENERATE A PSEUDO-RANDOM SEQUENCE OF

MULTI-CARRIER DATA SYMBOLS, AND RELATED TRANSMITTER AND

RECEIVER

To generate a pseudo-random sequence (PRMS1) of multi-carrier data symbols (DMT0, DMT1, DMT2), a pseudo-random bit sequence (PRBS1) is produced by repetitively generating a

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pseudo-random sequence of L bits, L being a first integer value ($L=4$). To create a multi-carrier data symbol (DMT0, DMT1, DMT2) N bits are used, N being a second integer value ($N=8$).

The pseudo-random bit sequence (PRBS1) is subdivided into strings of N' bits, N' being a third integer value larger than N ($N'=9$), and N bits out of each string of N' bits are used to generate a respective multi-carrier data symbol (DMT0, DMT1, DMT2). $N'-N$ bits out of each string of N' bits are left unused.